APPENDIX

MARKED UP VERSION OF AMENDMENTS AS REQUIRED BY RULE 121

In The Specification:

On page 2, replace the paragraph from lines 4-19 with:

Furthermore, this patent application incorporates by reference the following
patent documents: U.S. Patent Application Serial No. [] 10/075,122,
Attorney Docket No. SILA:078, titled "Digital Architecture for Radio-Frequency
Apparatus and Associated Methods"; U.S. Patent Application Serial No.
[10/075,099, Attorney Docket No. SILA:097, titled "Notch Filter for
DC Offset Reduction in Radio-Frequency Apparatus and Associated Methods"; U.S.
Patent Application Serial No. [] 10/074,676, Attorney Docket No.
SILA:098, titled "DC Offset Reduction in Radio-Frequency Apparatus and Associated
Methods"; U.S. Patent Application Serial No. [] 10/075,094, Attorney
Docket No. SILA:074, titled "Radio-Frequency Communication Apparatus and
Associated Methods"; U.S. Patent Application Serial No. [] 10/075,098,
Attorney Docket No. SILA:075, titled "Apparatus and Methods for Generating Radio
Frequencies in Communication Circuitry"; U.S. Patent Application Serial No.
[] 10/074,591, Attorney Docket No. SILA:096, titled "Apparatus for
Generating Multiple Radio Frequencies in Communication Circuitry and Associated
Methods"; and U.S. Patent Application Serial No. [] 10/079,058,
Attorney Docket No. SILA:099, titled "Apparatus and Methods for Output Buffer
Circuitry with Constant Output Power in Radio-Frequency Circuitry."

In The Claims:

Please cancel claim 2.

[2.(Canceled) A radio-frequency (RF) apparatus, comprising:

a first circuit partition, comprising receiver analog circuitry configured to produce
a digital receive signal from an analog radio-frequency signal; and
a second circuit partition, comprising receiver digital circuitry configured to
accept the digital receive signal, wherein the first and second circuit
partitions are partitioned so that interference effects between the first
circuit partition and the second circuit partition tend to be reduced.]

Please add new claims 3-74.

--3. (New) The front-end circuitry according to claim 1, wherein the filter circuitry receives a radio-frequency input signal.

- 4. (New) The front-end circuitry according to claim 3, wherein the signal processing circuitry comprises an amplifier circuitry.
- 5. (New) The front-end circuitry according to claim 4, wherein signal processing circuitry comprises a low-noise amplifier circuitry.

- 6. (New) The front-end circuitry according to claim 5, wherein the impedance matching network comprises a differential L-network.
- 7. (New) The front-end circuitry according to claim 6, wherein the signal processing circuitry comprises a single-ended output.
- 8. (New) The front-end circuitry according to claim 6, wherein the signal processing circuitry comprises a differential output.
- 9. (New) The front-end circuitry according to claim 6, wherein the differential L-network comprises two inductors and a capacitor.
- 10. (New) The front-end circuitry according to claim 6, wherein the differential L-network comprises two capacitors and an inductor.
- 11. (New) The front-end circuitry according to claim 5, wherein the impedance matching network comprises a plurality of differential L-networks.
- 12. (New) The front-end circuitry according to claim 11, wherein the signal processing circuitry comprises a single-ended output.

- 13. (New) The front-end circuitry according to claim 11, wherein the signal processing circuitry comprises a differential output.
- 14. (New) The front-end circuitry according to claim 5, wherein the impedance matching network comprises a differential Π -network.
- 15. (New) The front-end circuitry according to claim 14, wherein the signal processing circuitry comprises a single-ended output.
- 16. (New) The front-end circuitry according to claim 14, wherein the signal processing circuitry comprises a differential output.
- 17. (New) The front-end circuitry according to claim 14, wherein the differential Π network comprises two inductors and two capacitors.
- 18. (New) The front-end circuitry according to claim 5, wherein the impedance matching network comprises a plurality of differential Π -networks.
- 19. (New) The front-end circuitry according to claim 18, wherein the signal processing circuitry comprises a single-ended output.

- 20. (New) The front-end circuitry according to claim 18, wherein the signal processing circuitry comprises a differential output.
- 21. (New) The front-end circuitry according to claim 5, wherein the impedance matching network comprises a differential T-network.
- 22. (New) The front-end circuitry according to claim 21, wherein the signal processing circuitry comprises a single-ended output.
- 23. (New) The front-end circuitry according to claim 21, wherein the signal processing circuitry comprises a differential output.
- 24. (New) The front-end circuitry according to claim 21, wherein the differential T-network comprises four inductors and one capacitor.
- 25. (New) The front-end circuitry according to claim 21, wherein the differential T-network comprises four capacitors and one inductor.
- 26. (New) The front-end circuitry according to claim 5, wherein the impedance matching network comprises a plurality of differential T-networks.

- 27. (New) The front-end circuitry according to claim 26, wherein the signal processing circuitry comprises a single-ended output.
- 28. (New) The front-end circuitry according to claim 26, wherein the signal processing circuitry comprises a differential output.
- 29. (New) The front-end circuitry according to claim 5, wherein the impedance matching network comprises at least one of a differential L-network, a differential Π-network, a differential T-network, or a combination thereof coupled in cascade.
- 30. (New) The front-end circuitry according to claim 29, wherein the signal processing circuitry comprises a single-ended output.
- 31. (New) The front-end circuitry according to claim 29, wherein the signal processing circuitry comprises a differential output.
- 32. (New) The front-end circuitry according to claim 5, wherein the impedance matching network comprises a differential transmission line.
- 33. (New) The front-end circuitry according to claim 32, wherein the signal processing circuitry comprises a single-ended output.

- 34. (New) The front-end circuitry according to claim 32, wherein the signal processing circuitry comprises a differential output.
- 35. (New) A radio-frequency (RF) apparatus, comprising:

 an impedance matching network, having a differential input and a differential output; and
 - a filter configured to receive a radio-frequency input signal, the filter having a differential output configured to provide a filtered signal to the impedance matching network.
- 36. (New) The radio-frequency apparatus of claim 35, further comprising a signal-processing circuit having a differential input, the signal-processing circuit configured to accept a signal from the differential output of the impedance matching network.
- 37. (New) The radio-frequency apparatus of claim 36, wherein the impedance matching network matches an output impedance of the filter to an input impedance of the signal-processing circuit.
- 38. (New) The radio-frequency apparatus of claim 37, wherein the impedance matching network comprises at least one differential L-network.

- 39. (New) The radio-frequency apparatus of claim 38, wherein the signal-processing circuit comprises a low-noise amplifier.
- 40. (New) The radio-frequency apparatus of claim 39, further comprising a first integrated circuit, wherein the low-noise amplifier resides within the first integrated circuit.
- 41. (New) The radio-frequency apparatus of claim 40, wherein the first integrated circuit further comprises radio-frequency receiver circuitry.
- 42. (New) The radio-frequency apparatus of claim 41, further comprising a second integrated comprising digital signal-processing circuitry, the second integrated circuit coupled to the first integrated circuit and configured to accept a digital output signal of the first integrated circuit.
- 43. (New) The radio-frequency apparatus of claim 37, wherein the impedance matching network comprises at least one differential Π-network.
- 44. (New) The radio-frequency apparatus of claim 43, wherein the signal-processing circuit comprises a low-noise amplifier.

- 45. (New) The radio-frequency apparatus of claim 44, further comprising a first integrated circuit, wherein the low-noise amplifier resides within the first integrated circuit.
- 46. (New) The radio-frequency apparatus of claim 45, wherein the first integrated circuit further comprises radio-frequency receiver circuitry.
- 47. (New) The radio-frequency apparatus of claim 46, further comprising a second integrated comprising digital signal-processing circuitry, the second integrated circuit coupled to the first integrated circuit and configured to accept a digital output signal of the first integrated circuit.
- 48. (New) The radio-frequency apparatus of claim 37, wherein the impedance matching network comprises at least one differential T-network.
- 49. (New) The radio-frequency apparatus of claim 48, wherein the signal-processing circuit comprises a low-noise amplifier.

- 50. (New) The radio-frequency apparatus of claim 49, further comprising a first integrated circuit, wherein the low-noise amplifier resides within the first integrated circuit.
- 51. (New) The radio-frequency apparatus of claim 50, wherein the first integrated circuit further comprises radio-frequency receiver circuitry.
- 52. (New) The radio-frequency apparatus of claim 51, further comprising a second integrated comprising digital signal-processing circuitry, the second integrated circuit coupled to the first integrated circuit and configured to accept a digital output signal of the first integrated circuit.
- 53. (New) The radio-frequency apparatus of claim 37, wherein the impedance matching network comprises a cascade coupling of at least one differential L-network, at least one differential Π-network, at least one differential T-network, or a combination thereof.
- 54. (New) The radio-frequency apparatus of claim 53, wherein the signal-processing circuit comprises a low-noise amplifier.

- 55. (New) The radio-frequency apparatus of claim 54, further comprising a first integrated circuit, wherein the low-noise amplifier resides within the first integrated circuit.
- 56. (New) The radio-frequency apparatus of claim 55, wherein the first integrated circuit further comprises radio-frequency receiver circuitry.
- 57. (New) The radio-frequency apparatus of claim 56, further comprising a second integrated comprising digital signal-processing circuitry, the second integrated circuit coupled to the first integrated circuit and configured to accept a digital output signal of the first integrated circuit.
- 58. (New) The radio-frequency apparatus of claim 37, wherein the impedance matching network comprises a differential transmission line.
- 59. (New) The radio-frequency apparatus of claim 58, wherein the signal-processing circuit comprises a low-noise amplifier.
- 60. (New) The radio-frequency apparatus of claim 59, further comprising a first integrated circuit, wherein the low-noise amplifier resides within the first integrated circuit.

- 61. (New) The radio-frequency apparatus of claim 60, wherein the first integrated circuit further comprises radio-frequency receiver circuitry.
- 62. (New) The radio-frequency apparatus of claim 61, further comprising a second integrated comprising digital signal-processing circuitry, the second integrated circuit coupled to the first integrated circuit and configured to accept a digital output signal of the first integrated circuit.
- 63. (New) A method of processing signals in a radio-frequency (RF) apparatus, comprising:

filtering an input radio-frequency signal in a filter that has a differential output
configured to provide a filtered signal; and
receiving and processing the filtered signal in an impedance matching network
that has a differential input, the impedance matching network configured
to generate an output signal at a differential output of the impedance

64. (New) The method of claim 63, wherein the impedance matching network is configured to match an output impedance of the filter to an input impedance of the signal-processing circuit.

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matching network.

- 65. (New) The method of claim 64, further comprising processing the output signal in a radio-frequency receiver circuitry.
- 66. (New) The method of claim 65, wherein processing the output signal in a radiofrequency receiver circuitry comprises processing the output signal in a low-noise amplifier.
- 67. (New) The method of claim 66, wherein the impedance matching network for receiving and processing the filtered signal comprises at least one differential L-network.
- 68. (New) The method of claim 66, wherein the impedance matching network for receiving and processing the filtered signal comprises at least one differential Π -network.
- 69. (New) The method of claim 66, wherein the impedance matching network for receiving and processing the filtered signal comprises at least one differential T-network.
- 70. (New) The method of claim 66, wherein the impedance matching network for receiving and processing the filtered signal comprises a cascade coupling of at least one differential L-network, at least one differential P-network, at least one differential T-network, or a combination thereof.

- 71. (New) The method of claim 66, wherein the impedance matching network for receiving and processing the filtered signal comprises a differential transmission line.
- 72. (New) The method of claim 66, wherein the impedance matching network for receiving and processing the filtered signal comprises at least one of a differential L-network, a differential P-network, and a differential T-network.
- 73. (New) The method of claim 72, wherein the low-noise amplifier for processing the output signal resides in a first integrated circuit that includes the radio-frequency receiver circuitry.
- 74. (New) The method of claim 73, further comprising:

 receiving in a second integrated circuit a digital output signal of the radiofrequency receiver circuitry; and

 processing digitally the digital output signal of the radio-frequency receiver
 circuitry.--